

FIGURE 1A

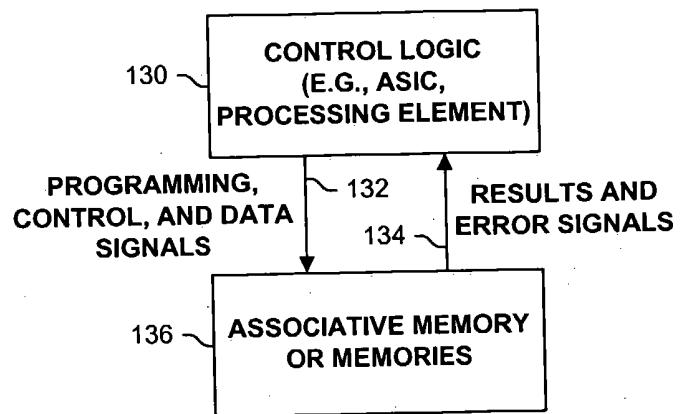


FIGURE 1B

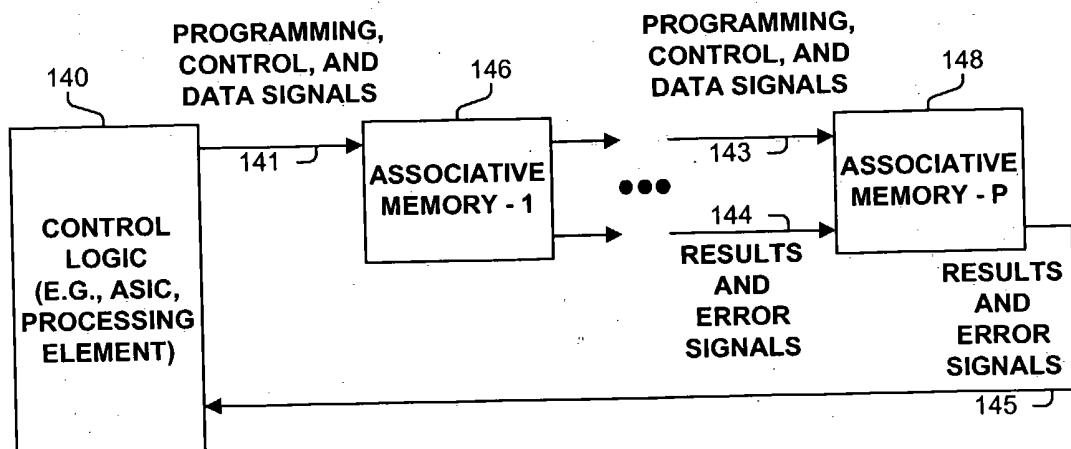


FIGURE 1C

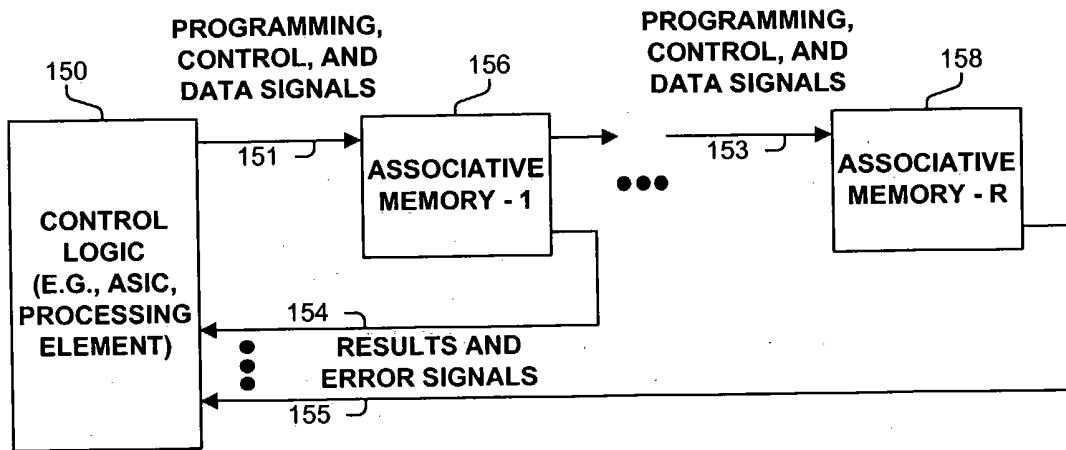


FIGURE 1D

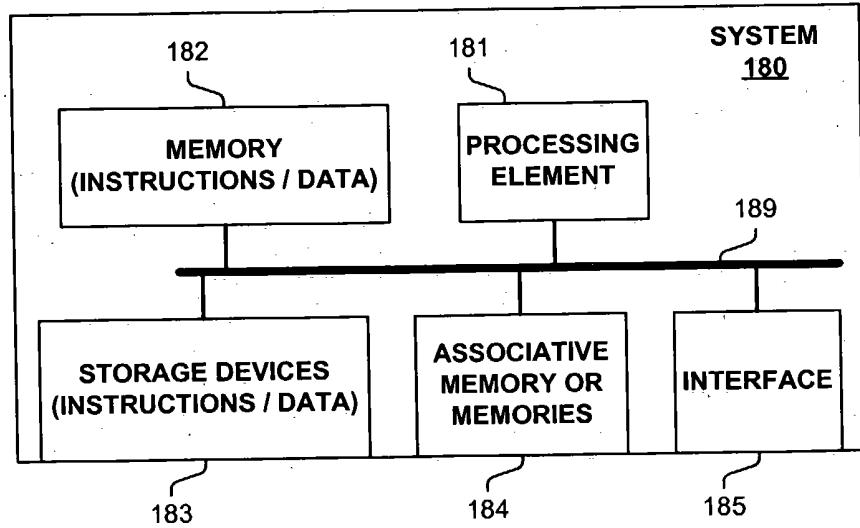


FIGURE 1E

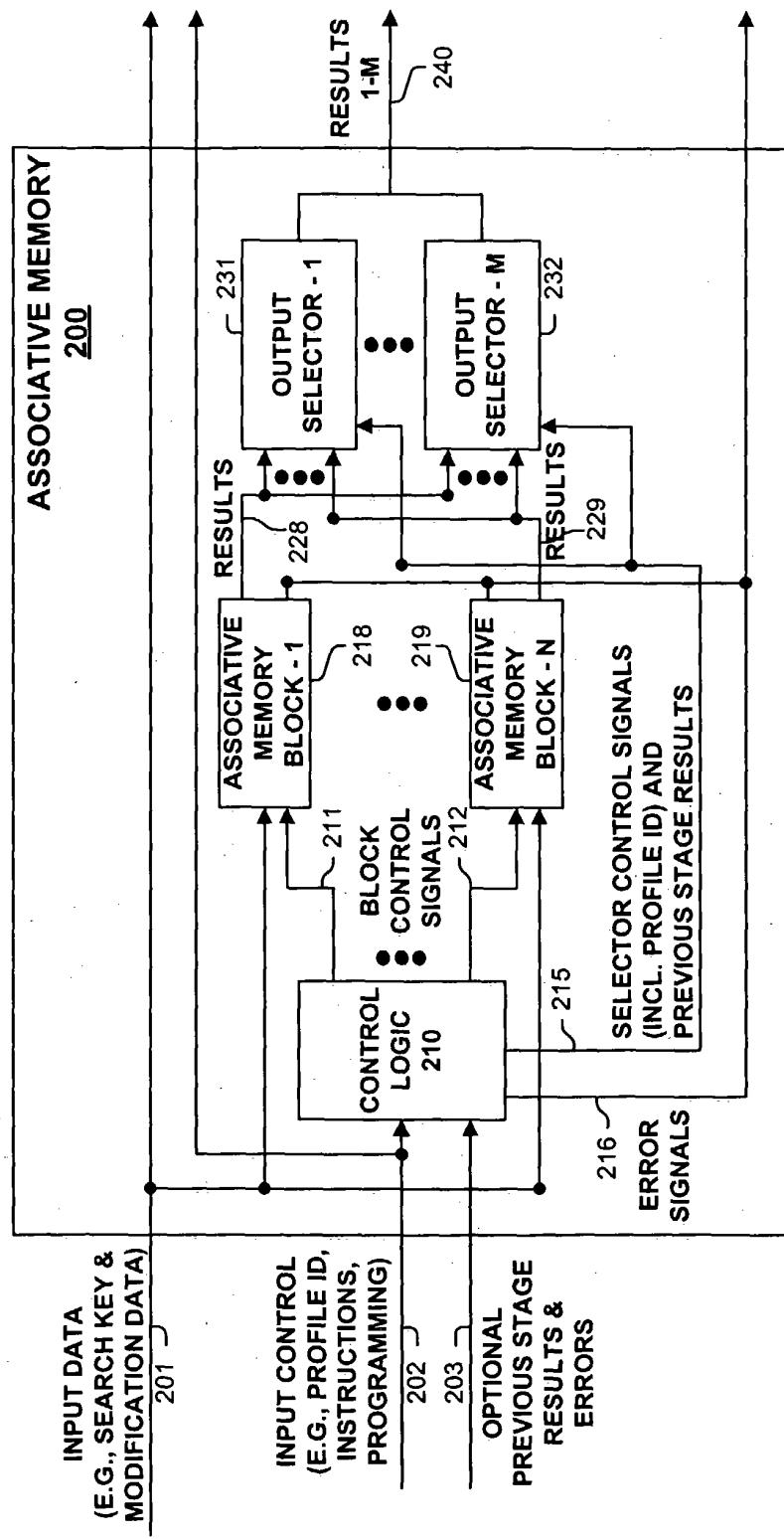


FIGURE 2

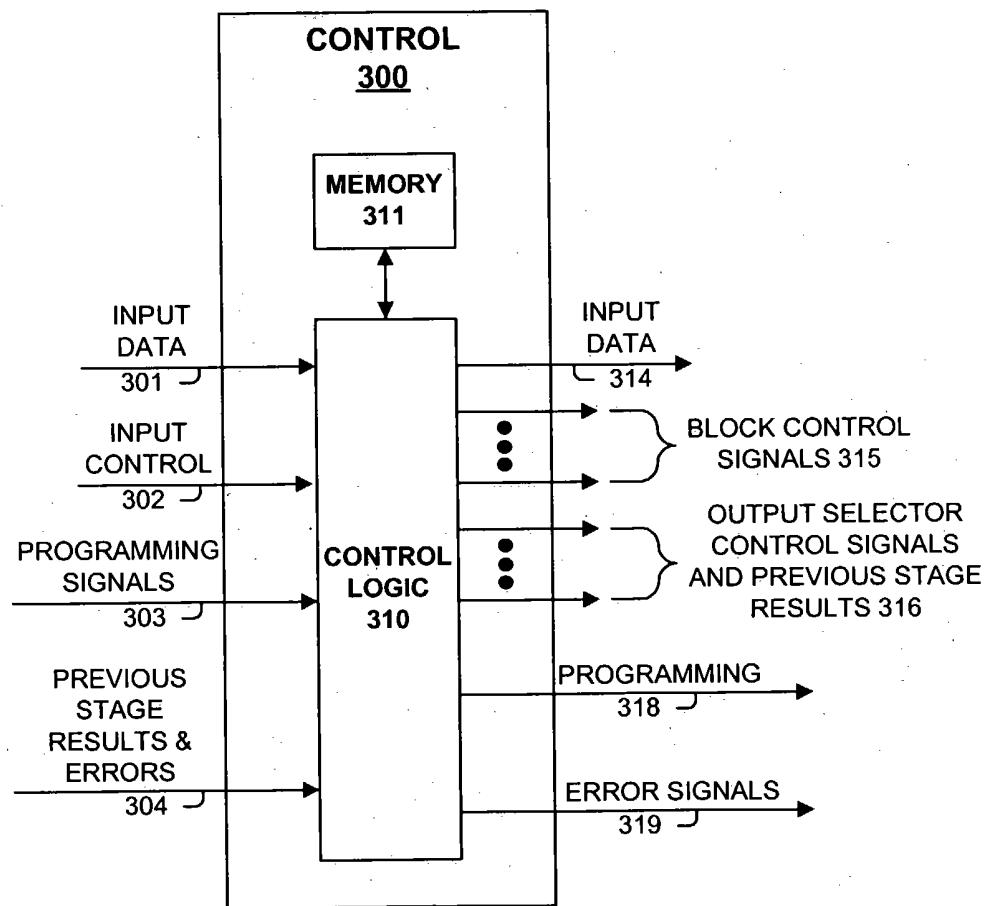


FIGURE 3A

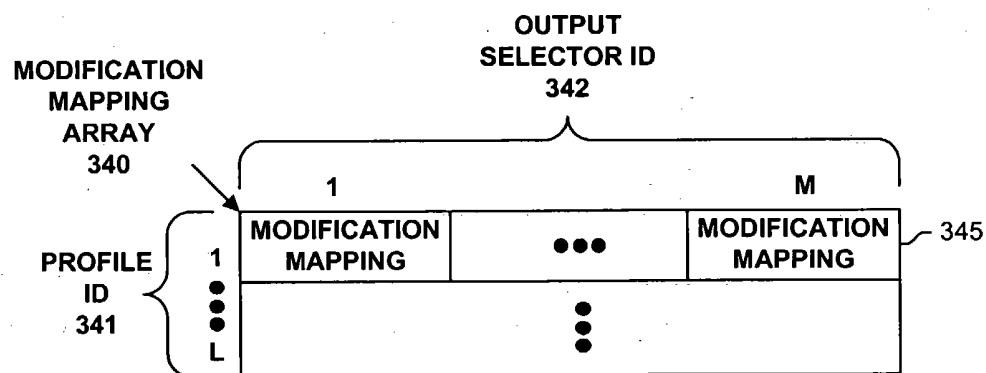
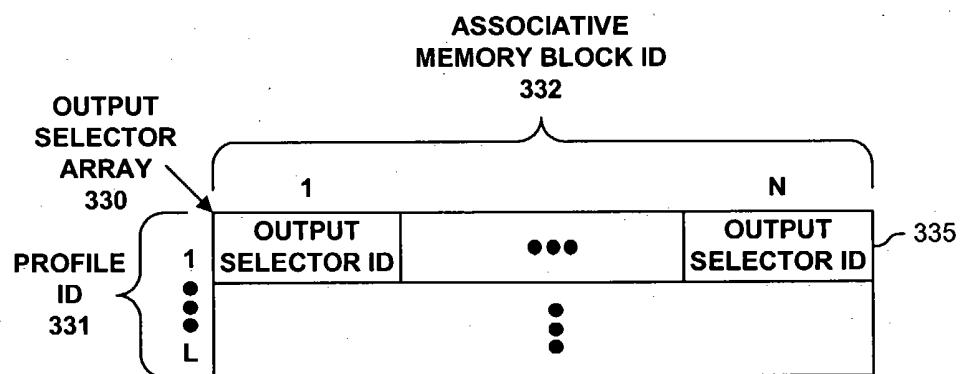
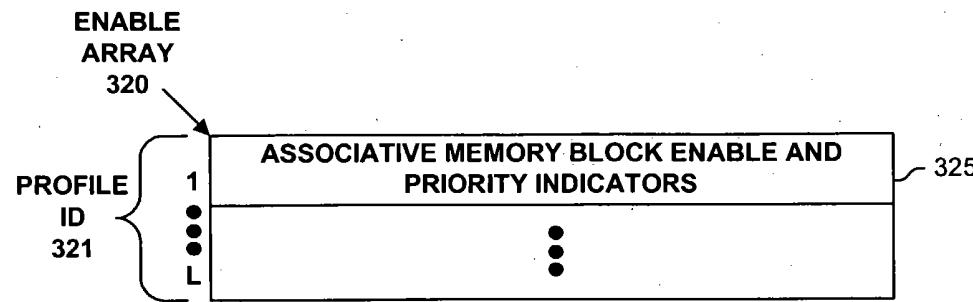


FIGURE 3B

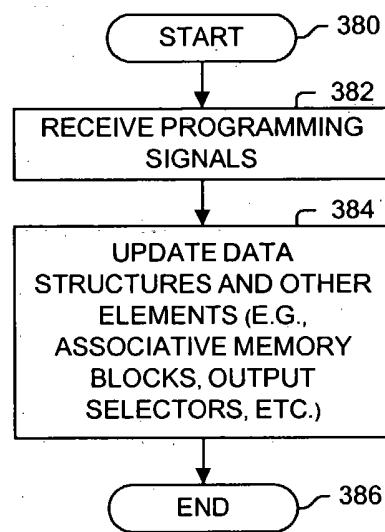


FIGURE 3C

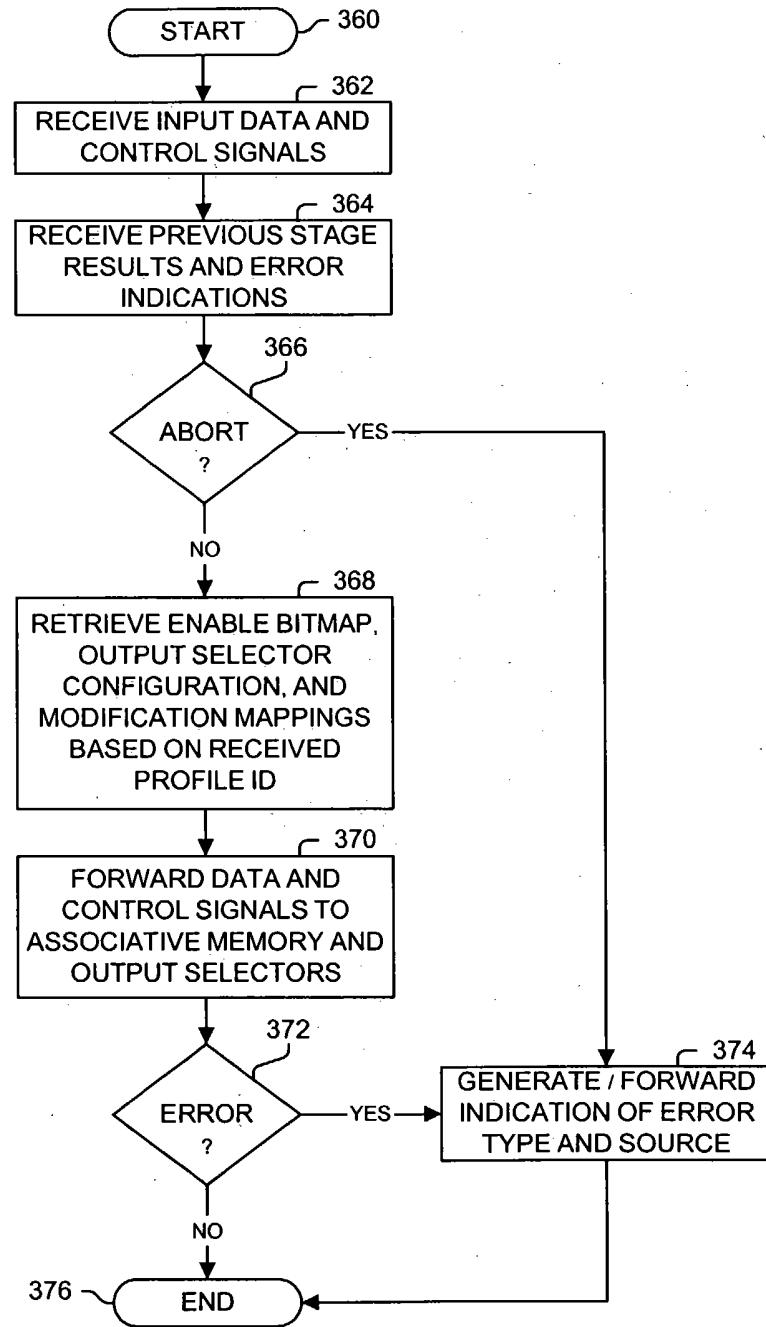


FIGURE 3D

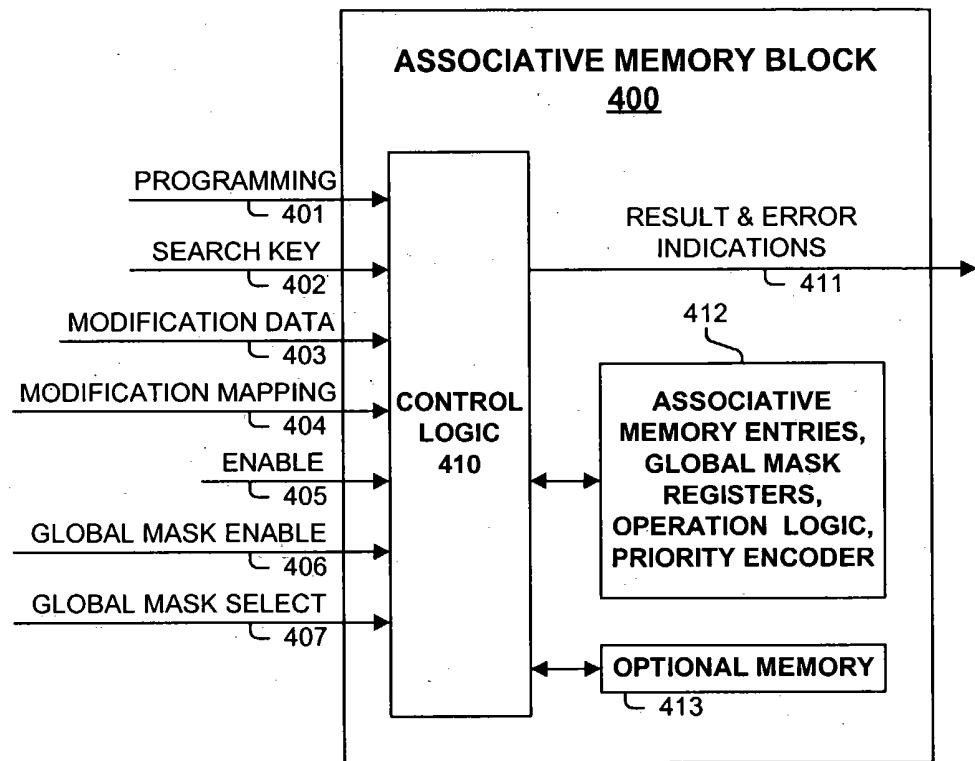


FIGURE 4A

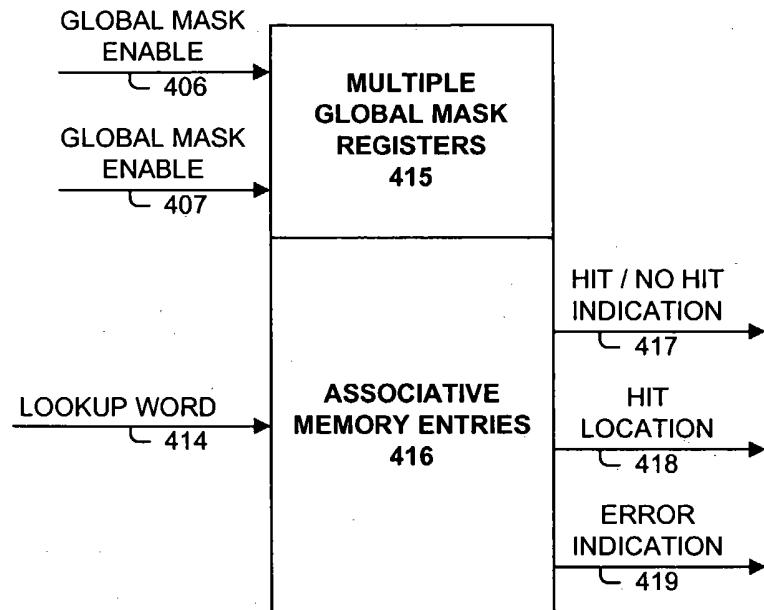


FIGURE 4B

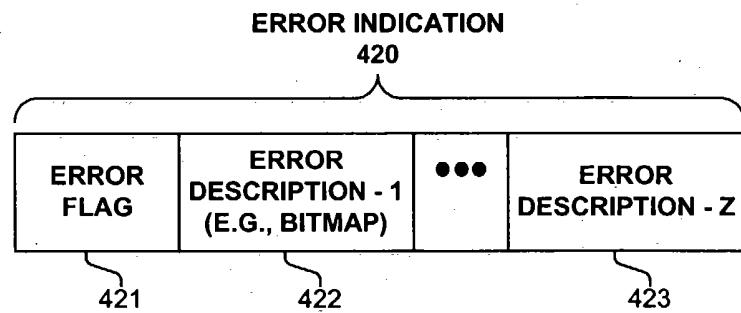


FIGURE 4C

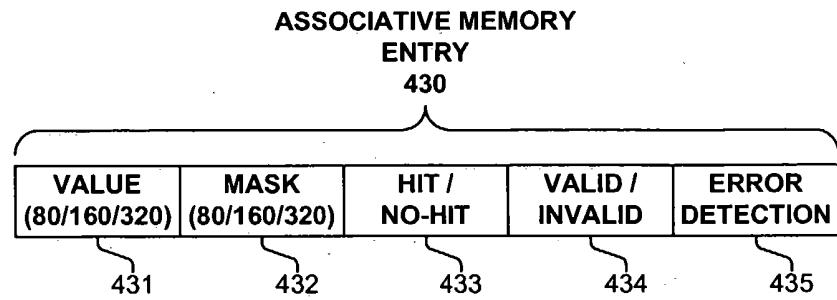


FIGURE 4D

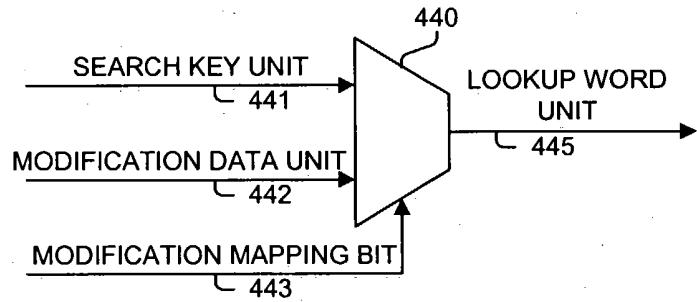


FIGURE 4E

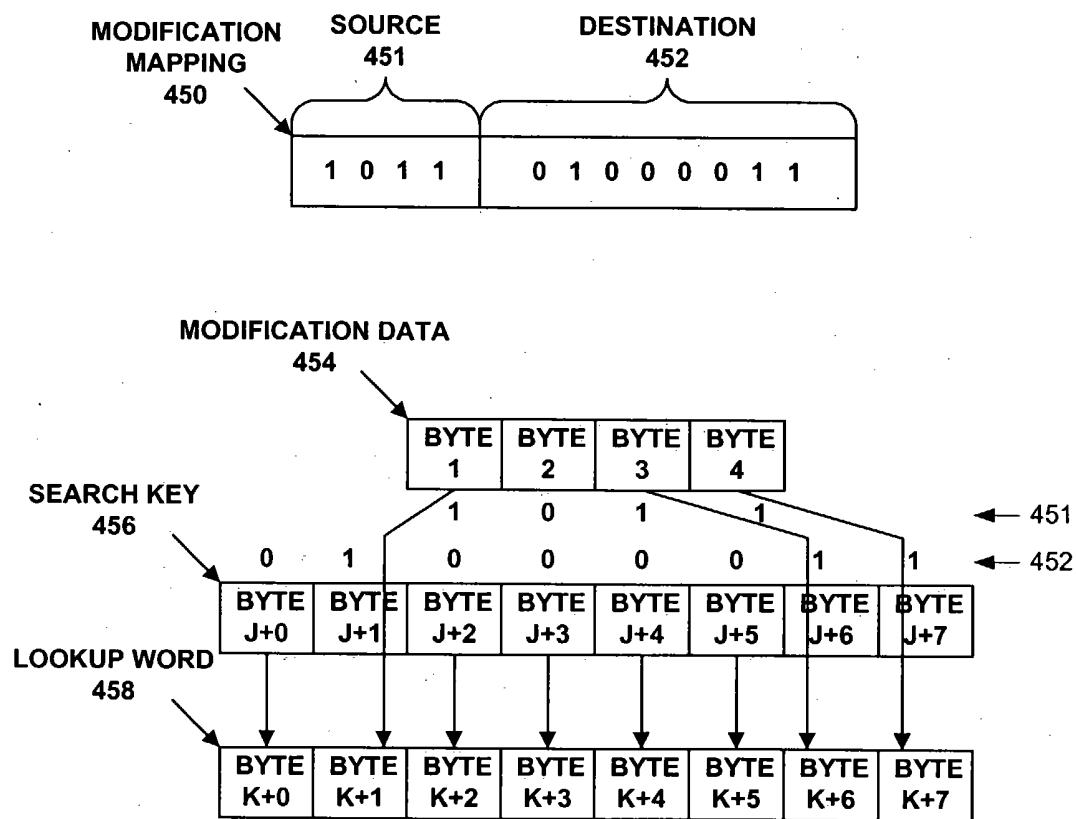


FIGURE 4F

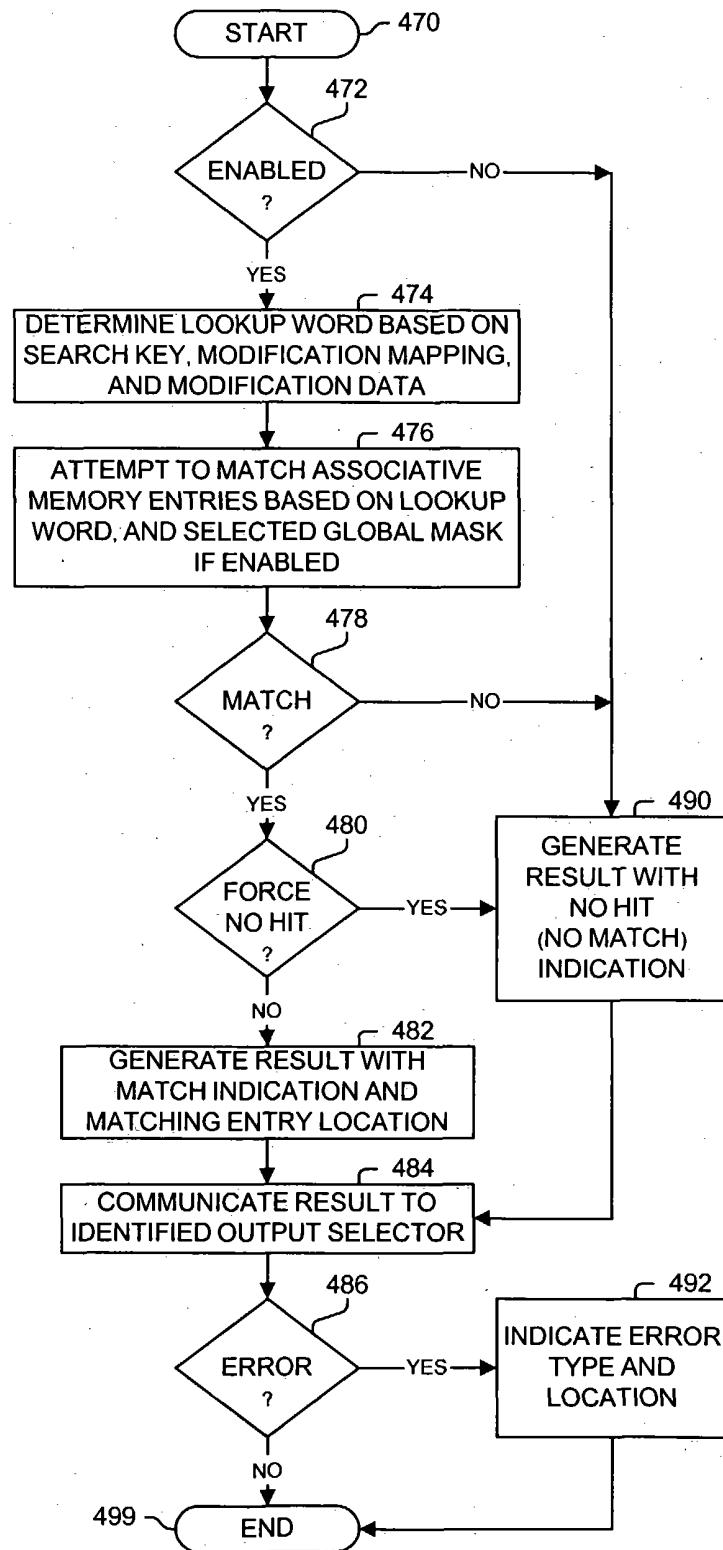


FIGURE 4G

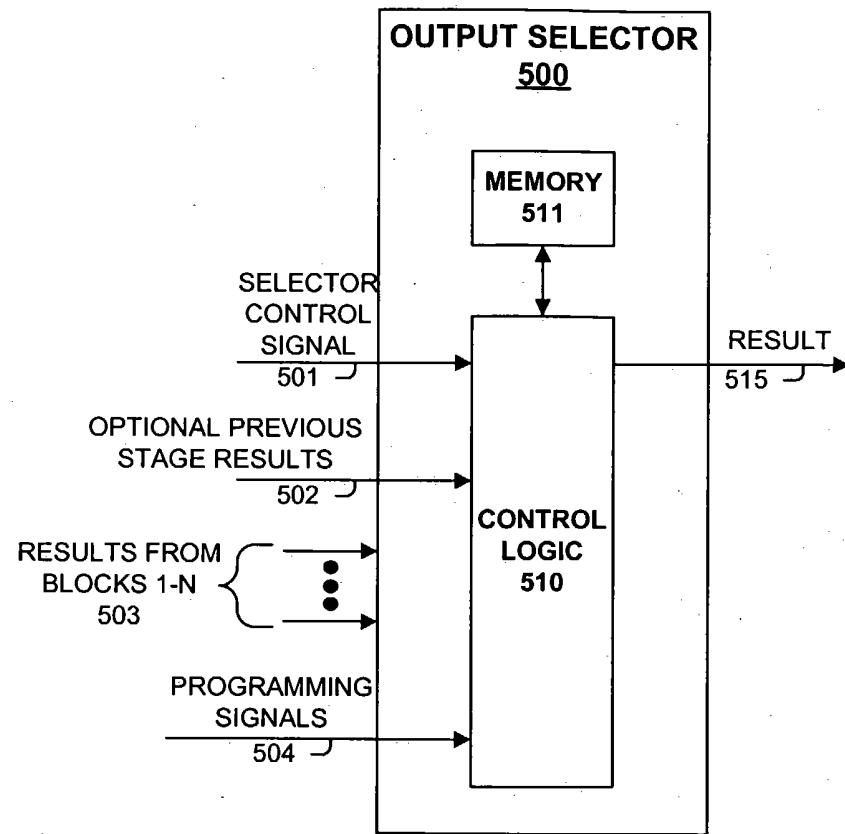


FIGURE 5A

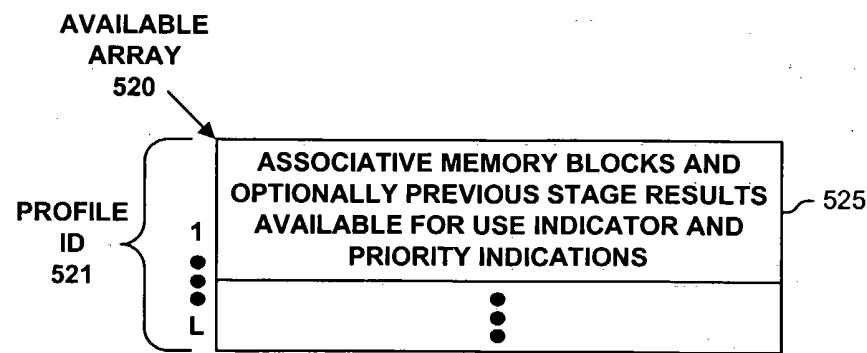


FIGURE 5B

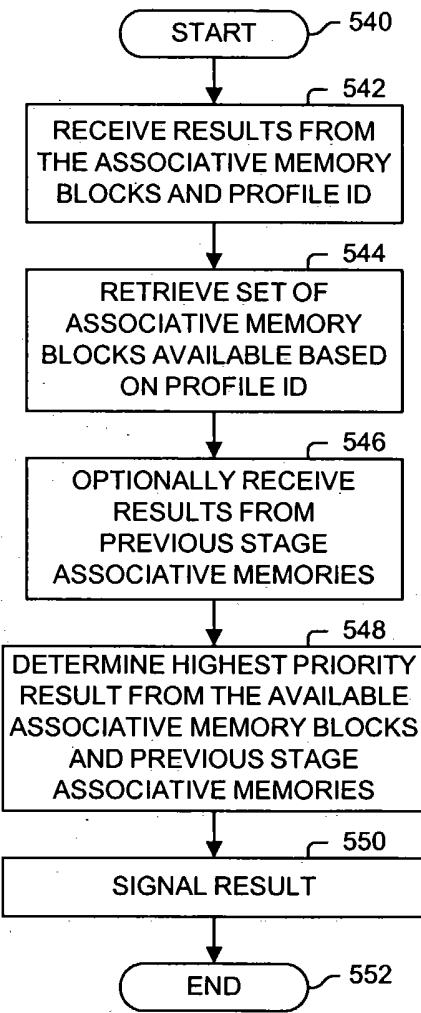


FIGURE 5C

POLICY MAP

600

```
route-map my_map sequence_1
match ip address ACL101
set ip next-hop 192.10.10.1

route-map my_map sequence_2
match ip address ACL102
set ip next-hop 198.20.20.1

ip access-list ACL101 deny ip 10.0.0.0 0.255.255.255 any
ip access-list ACL101 permit ip any any

ip access-list ACL102 permit ip any 20.0.0.0 0.255.255.255
ip access-list ACL102 deny ip any any

int f3/1
ip policy route-map my_map
```

FIGURE 6A

**BLOCK/
ASSOCIATIVE
MEMORY 1
ENTRIES**

621

```
10.*.*.*  *.*.*.*  FORCE NO-HIT = 1  PRIORITY = 1
*.*.*.*  *.*.*.*  FORCE NO-HIT = 0  PRIORITY = 1
```

```
*.*.*.*  20.*.*.*  FORCE NO-HIT= 0  PRIORITY = 2
*.*.*.*  *.*.*.*  FORCE NO-HIT= 1  PRIORITY = 2
```

**BLOCK/
ASSOCIATIVE
MEMORY 2
ENTRIES**

622

FIGURE 6B

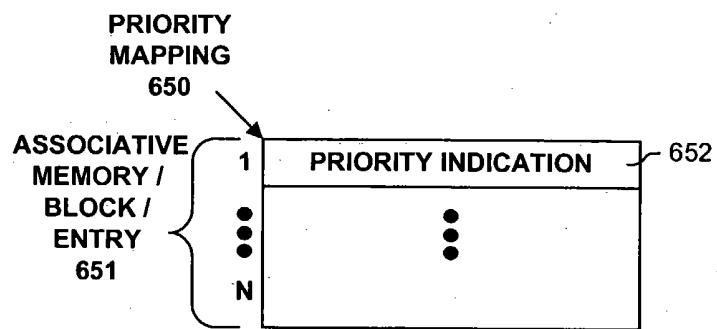


FIGURE 6C

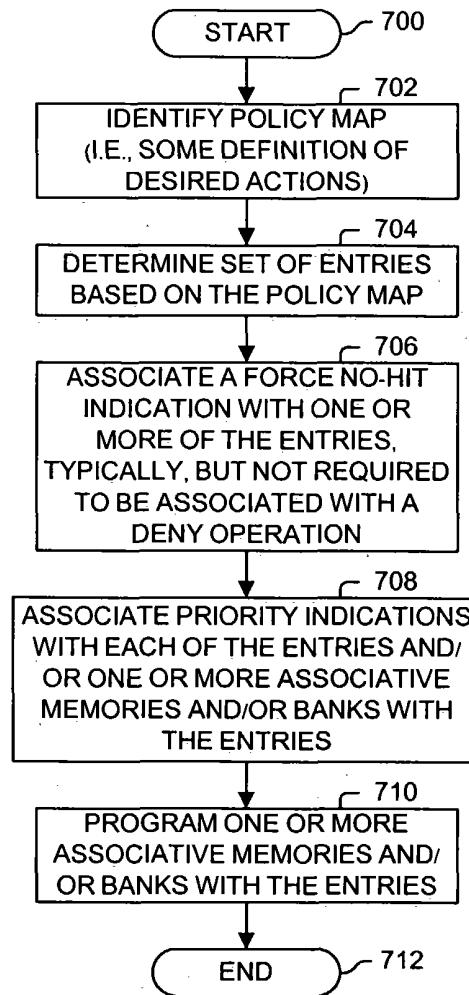


FIGURE 7A

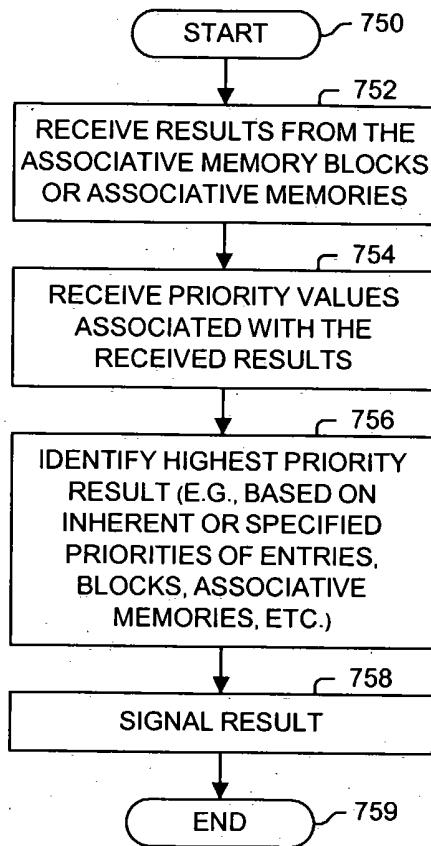


FIGURE 7B

ACCESS
CONTROL

LIST

800

```
route-map my_map sequence_1
match ip address ACL101
set ip next-hop 192.10.10.1
set billing-1

route-map my_map sequence_2
match ip address ACL102
set ip next-hop 198.20.20.1
set billing-2

803 { ip access-list ACL101 permit ip 10.0.0.0 0.255.255.255 any
      ip access-list ACL101 permit ip 11.0.0.0 0.255.255.255 any
      ip access-list ACL101 deny ip 12.0.0.0 0.255.255.255 any
      ip access-list ACL101 permit ip any any

804 { ip access-list ACL102 permit ip any 20.0.0.0 0.255.255.255
      ip access-list ACL102 deny ip any any

      int f3/1
      ip policy route-map my_map
```

FIGURE 8A

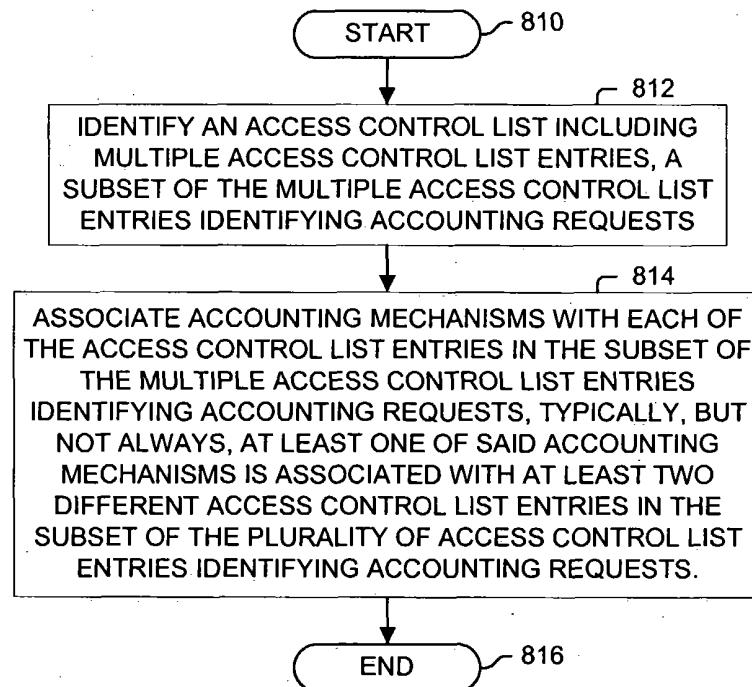


FIGURE 8B

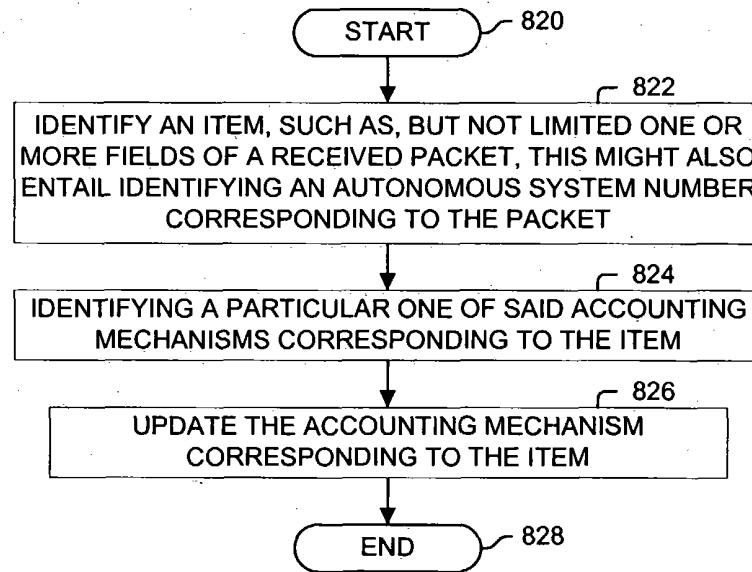


FIGURE 8C

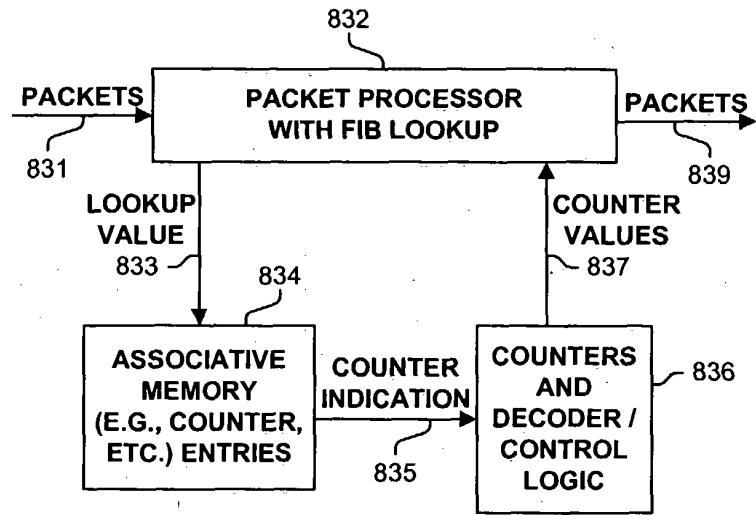


FIGURE 8D

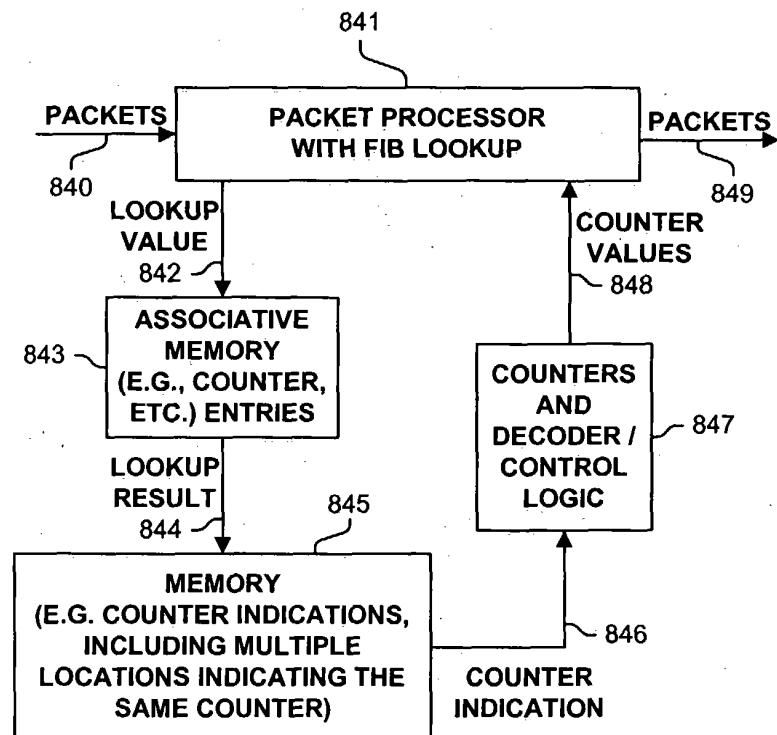


FIGURE 8E

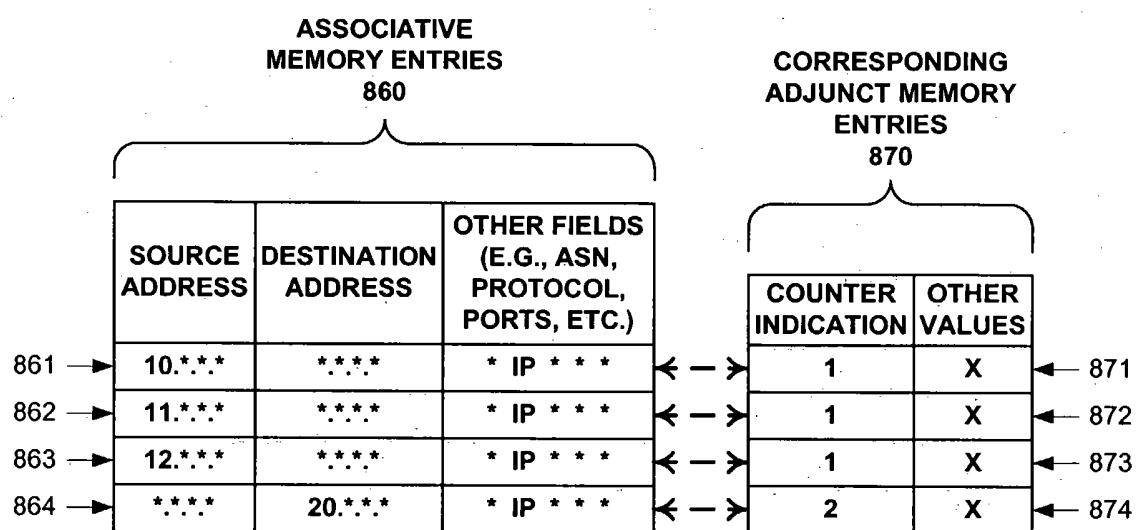


FIGURE 8F

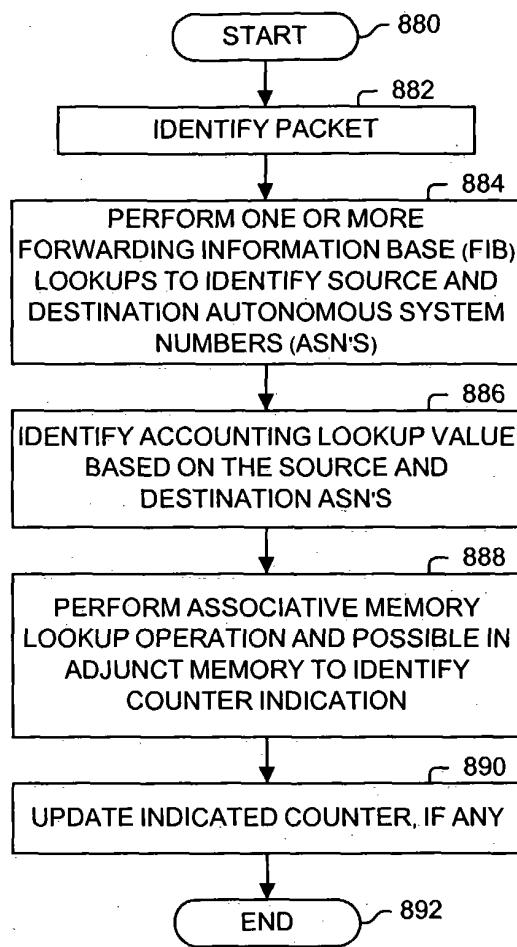


FIGURE 8G

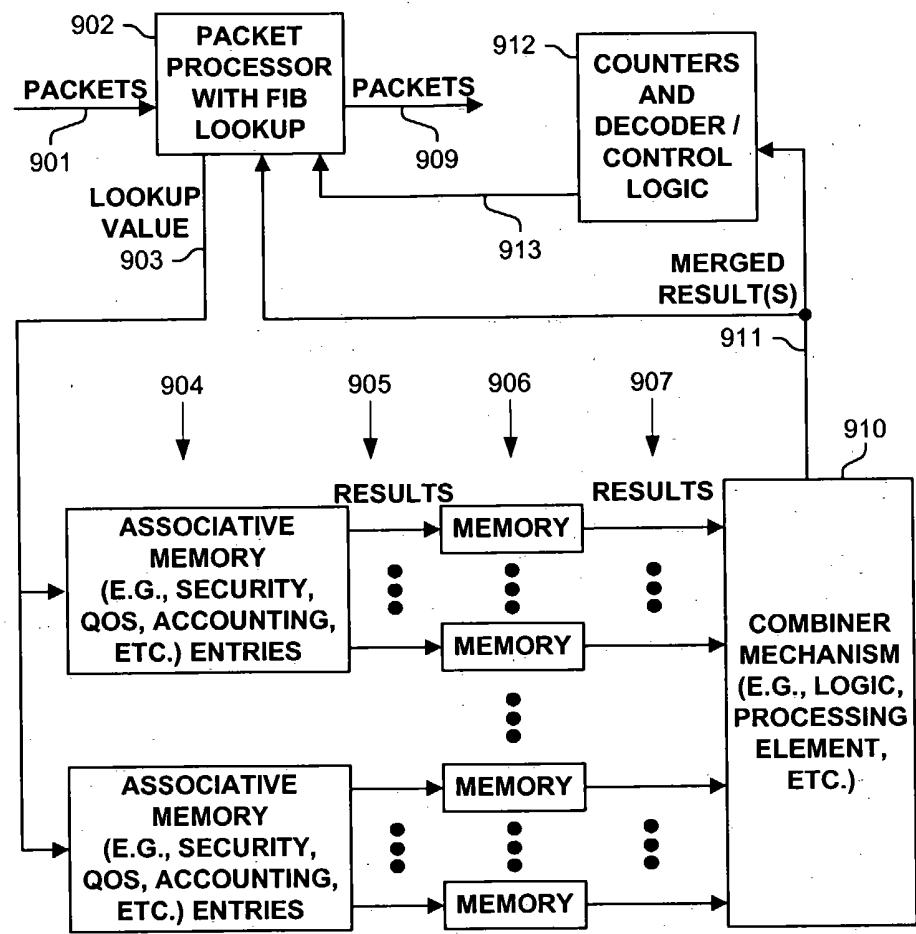


FIGURE 9A

ACCESS
CONTROL
LIST
915

```
route-map my_map sequence_1
match ip address ACL101
set ip next-hop 192.10.10.1
set billing-1

route-map my_map sequence_2
match ip address ACL102
set encrypt
set billing-2

TYPE A,
FEATURE 1
916 { ip access-list ACL101 permit ip 10.10.**.* 20.1.1.**
ip access-list ACL101 permit ip 10.10.**.* 20.1.*.**
ip access-list ACL101 permit ip 10.10.1.* 20.2.1.1
ip access-list ACL101 deny ip *.*.*.* *.*.*.*

TYPE A,
FEATURE 2
917 { ip access-list ACL102 permit ip 10.10.1.* 20.1.1.2
ip access-list ACL102 permit ip 10.10.1.* 20.1.2.2
ip access-list ACL102 permit ip 10.20.1.2 *.*.*.**
ip access-list ACL102 deny ip *.*.*.* *.*.*.**

int f3/1
ip policy route-map my_map
```

FIGURE 9B

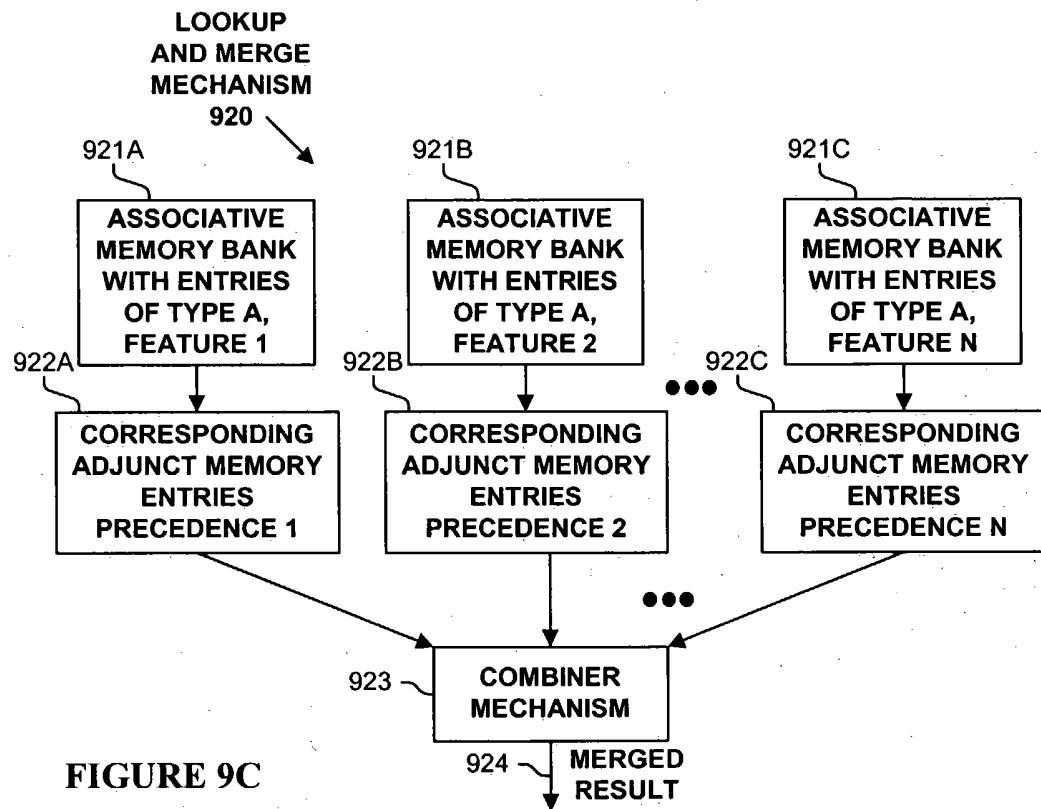


FIGURE 9C

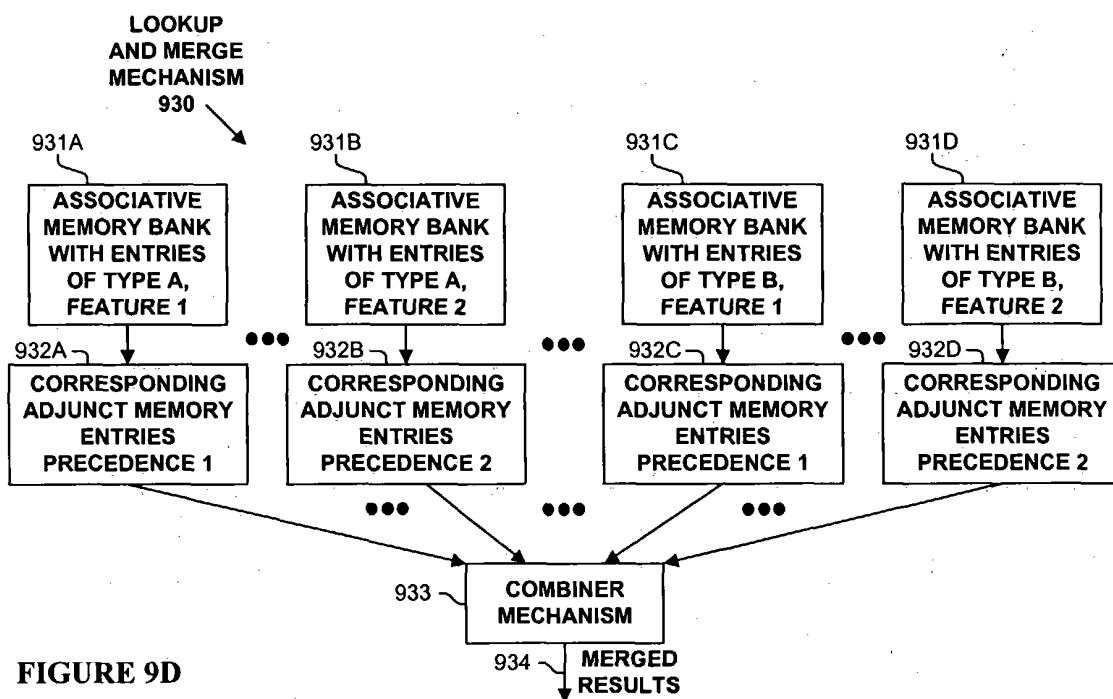


FIGURE 9D

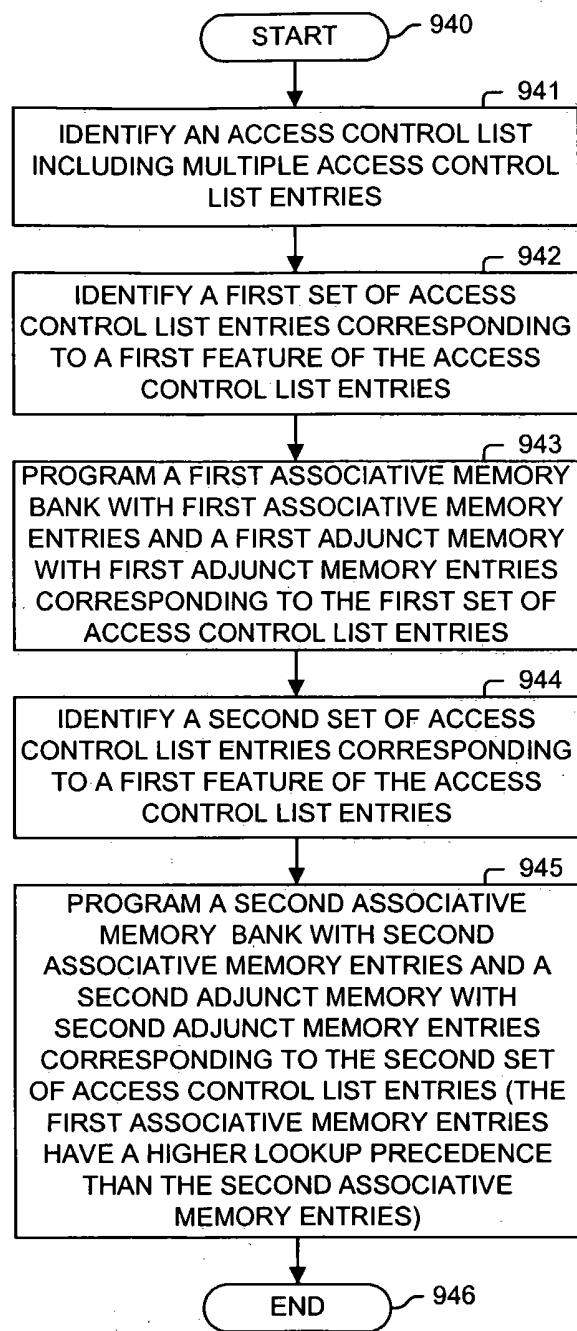


FIGURE 9E

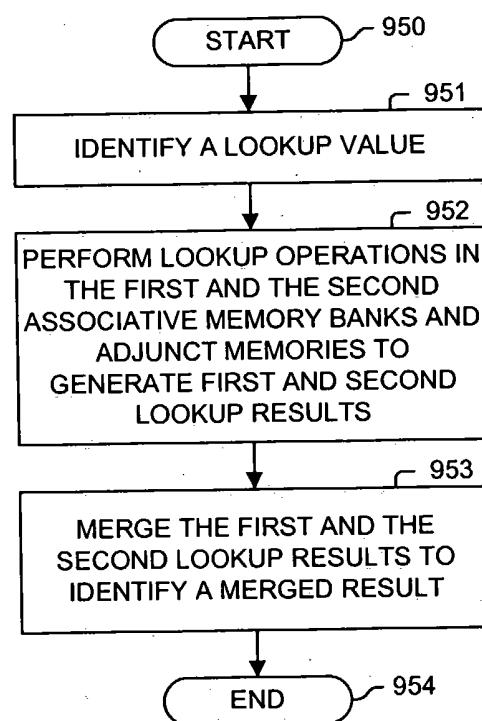


FIGURE 9F

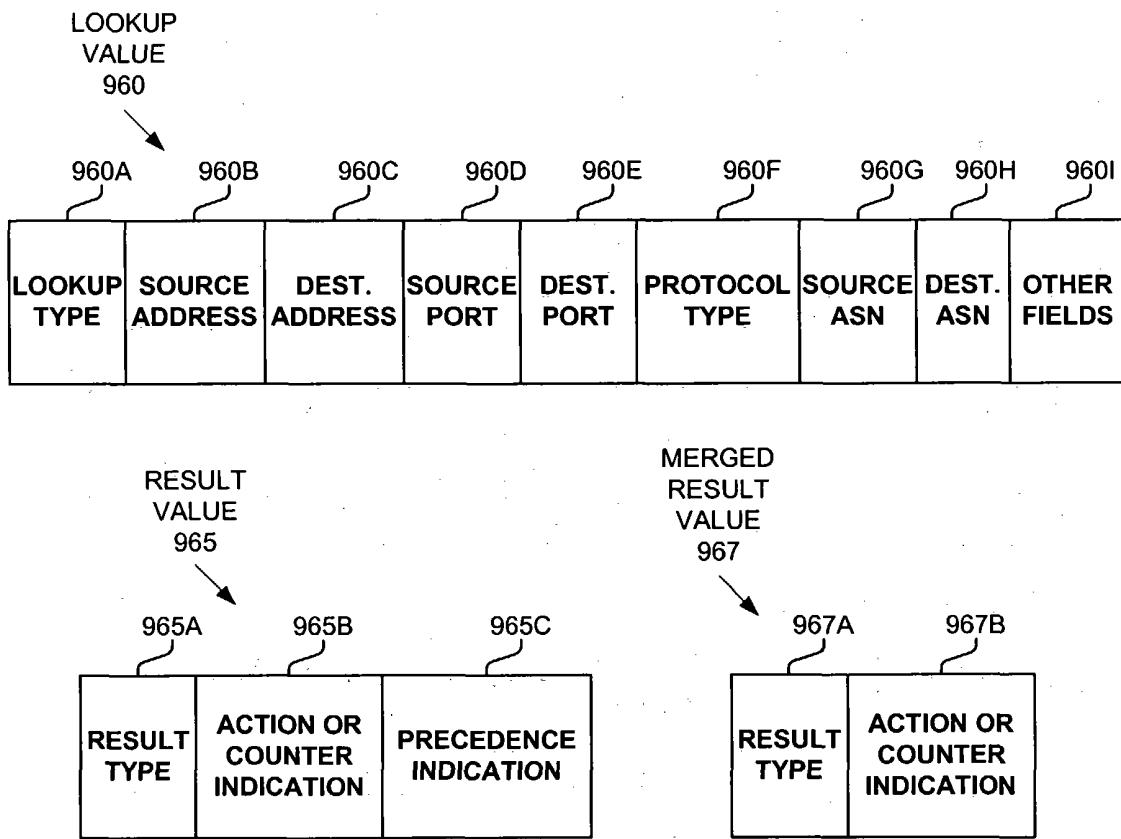


FIGURE 9G

SECURITY
COMBINER
LOGIC
970

PRECEDENCE		PRECEDENCE		MERGED ACL
00	01	10	11	RESULT
DENY	---	---	---	DROP
REDIRECT	---	---	---	REDIRECT
PERMIT	REDIRECT	---	---	REDIRECT
PERMIT	PERMIT	REDIRECT	---	REDIRECT
PERMIT	PERMIT	PERMIT	REDIRECT	REDIRECT
PERMIT	PERMIT	PERMIT	PERMIT	PERMIT
PERMIT	DENY	---	---	DROP
PERMIT	PERMIT	DENY	---	DROP
PERMIT	PERMIT	PERMIT	DENY	DROP

FIGURE 9H

QOS
COMBINER
LOGIC
972

SECURITY MERGED RESULT

SECURITY MERGED RESULT	PRECEDENCE 00	PRECEDENCE 01	PRECEDENCE 10	PRECEDENCE 11	MERGED QOS RESULT
PERMIT	PERMIT	---	---	---	QOS ACTION 1
PERMIT	DENY	PERMIT	---	---	QOS ACTION 2
PERMIT	DENY	DENY	PERMIT	---	QOS ACTION 3
PERMIT	DENY	DENY	DENY	PERMIT	QOS ACTION 4
PERMIT	DENY	DENY	DENY	DENY	DEFAULT QOS ACTION
DENY / REDIRECT	---	---	---	---	NO QOS ACTION

FIGURE 9I

ACCOUNTING
COMBINER
LOGIC
974

The table is a 6x6 matrix representing the logic for merging accounting results. The columns are labeled as follows:

- Column 1: SECURITY MERGED RESULT
- Column 2: PRECEDENCE 00
- Column 3: PRECEDENCE 01
- Column 4: PRECEDENCE 10
- Column 5: PRECEDENCE 11
- Column 6: MERGED ACCOUNTING RESULT

The rows represent different input conditions (974A-F) and are labeled as follows:

- Row 1: PERMIT / REDIRECT
- Row 2: PERMIT / REDIRECT
- Row 3: PERMIT / REDIRECT
- Row 4: PERMIT / REDIRECT
- Row 5: PERMIT / REDIRECT
- Row 6: DENY

The table entries are as follows:

	SECURITY MERGED RESULT	PRECEDENCE 00	PRECEDENCE 01	PRECEDENCE 10	PRECEDENCE 11	MERGED ACCOUNTING RESULT
PERMIT / REDIRECT	PERMIT	---	---	---	---	COUNTER ACTION 1
PERMIT / REDIRECT	DENY	PERMIT	---	---	---	COUNTER ACTION 2
PERMIT / REDIRECT	DENY	DENY	PERMIT	---	---	COUNTER ACTION 3
PERMIT / REDIRECT	DENY	DENY	DENY	PERMIT	---	COUNTER ACTION 4
PERMIT / REDIRECT	DENY	DENY	DENY	DENY	---	DEFAULT COUNTER ACTION
DENY	---	---	---	---	---	NO COUNTER ACTION

FIGURE 9J

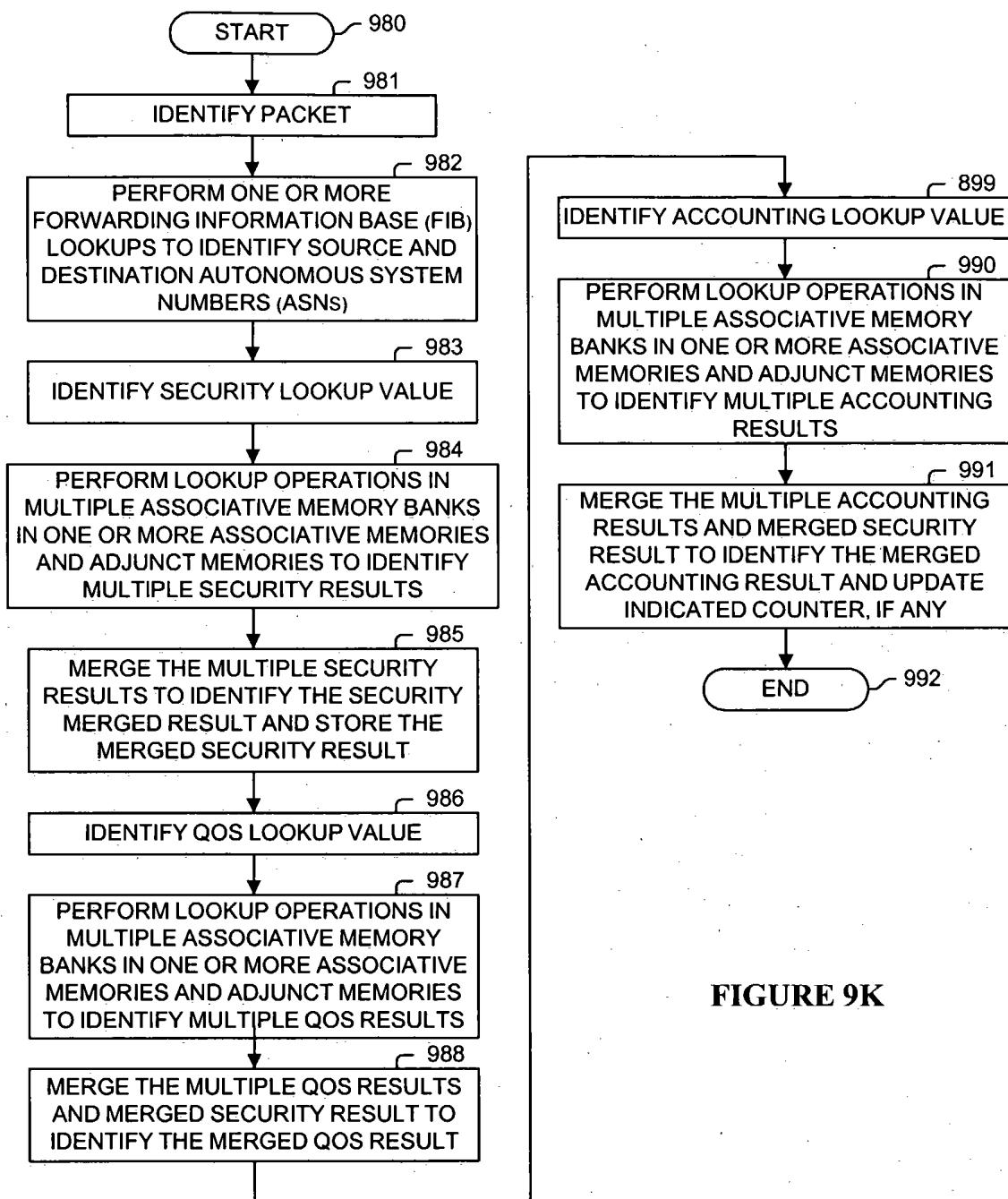


FIGURE 9K